

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

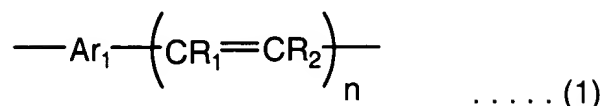
1. (Currently Amended): A polymeric fluorescent substance which emits a fluorescence in solid state and has a number-average molecular weight of 10^3 to 10^8 in terms of polystyrene, wherein the substance contains two repeating units represented by the following formula (1) and formula (3), and these repeating units are so selected as to satisfy the following conditions (a) to (c):

(a): the total amount of the repeating units represented by the formulae (1) and (3) is 50 mol% or more of the amount of the whole repeating units,

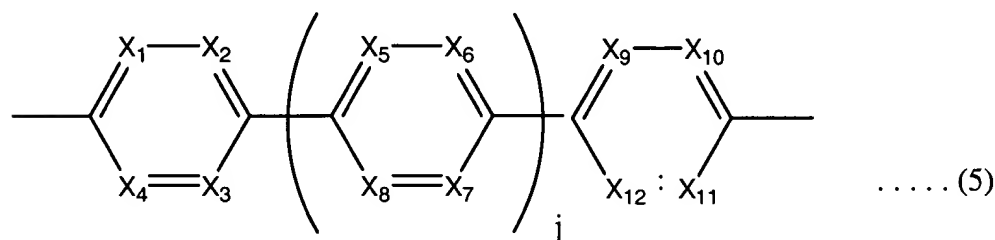
(b): the amount of the repeating unit represented by the formula (3) is more than 0.1 mol% and less than 9 mol% based on the total amount of the repeating units represented by the formula (1) and formula (3), and

(c): when the absorption edge wavelength of a polymer solely composed of a repeating unit represented by the formula (1) is represented by λ_1 (nm) and the absorption edge wavelength of a polymer solely composed of a repeating unit represented by the formula (3) is represented by λ_2 (nm), the following relation is satisfied:

$$1239/\lambda_1 \geq 1239/\lambda_2 + 0.05$$

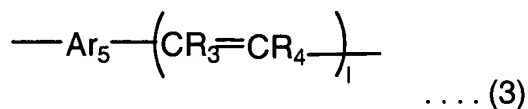


in the formula, Ar₁ is a group represented by the following formula (5); R₁ and R₂ each independently represents a group selected from the group consisting of a hydrogen atom, alkyl group having 1 to 20 carbon atoms, aryl group having 6 to 60 carbon atoms, heterocyclic compound group having 4 to 60 carbon atoms and cyano group; and n is 0 or 1,



in the formula, X₁ to X₁₂ each independently represents C-R₇ or N, and at least one of X₁ to X₁₂ is C-R₇; wherein, R₇ represents a group selected from the group consisting of a hydrogen atom, alkyl group having 1 to 20 carbon atoms, alkoxy group having 1 to 20 carbon atoms, alkylthio group having 1 to 20 carbon atoms, alkylsilyl group having 1 to 60 carbon atoms, alkylamino group having 1 to 40 carbon atoms, aryl group having 6 to 60 carbon atoms, aryloxy group having 6 to 60 carbon atoms, arylalkyl group having 7 to 60 carbon atoms, arylalkoxy group having 7 to 60 carbon atoms, arylalkenyl group having 8 to 60 carbon atoms, arylalkynyl group having 8 to 60 carbon atoms, arylamino group having 6 to 60 carbon atoms, heterocyclic compound group having 4 to 60 carbon atoms and cyano group; at least one R₇ is a group other than a hydrogen atom; when plurality of R₇'s are present, they may be same or different;

the group represented by the formula (5) has at least one substituent other than a hydrogen atom, and when the group (5) has a plurality of substituents, they may be the same or different; adjacent 6-membered rings may be mutually connected directly or via a substituent to form a ring; j is an integer from 0 to 3; wherein, X₁ and X₉, X₂ and X₁₀, X₃ and X₁₁, and X₄ and X₁₂ are not respectively the same simultaneously, and X₁ and X₁₂, X₂ and X₁₁, X₃ and X₁₀, and X₄ and X₉ are not respectively the same simultaneously,



in the formula, Ar₅ represents an arylene group having 6 to 60 carbon atoms contained in the main chain, ~~or a heterocyclic compound group having 4 to 60 carbon atoms contained in the main chain~~; R₃ and R₄ each independently represents a group selected from the group consisting of a hydrogen atom, alkyl group having 1 to 20 carbon atoms, aryl group having 6 to 60 carbon atoms, heterocyclic compound group having 4 to 60 carbon atoms and cyano group; l is 1.

2. (Canceled).

3. (Canceled)

4. (Previously Presented): The polymeric fluorescent substance according to Claim 1 wherein j=0 in said formula (5).

5. (Currently Amended): A polymer light emitting device comprising a pair of electrodes composed of an anode and a cathode at least one of which is transparent or semitransparent and at least one light emitting layer disposed between the electrodes, wherein the polymeric fluorescent substance of any one of Claims 1, ~~2~~ and 4 is contained in said light emitting layer.

6. (Previously Presented): The polymer light emitting device according to Claim 5 wherein a layer containing a conducting polymer is disposed at least between one electrode and the light emitting layer so that the layer containing a conducting polymer is adjacent to said electrode.

7. (Original): The polymer light emitting device according to Claim 5 wherein an insulation layer having a thickness of 2 nm or less is disposed at least between one electrode and the light emitting layer so that the insulation layer is adjacent to said electrode.

8. (Previously Presented): The polymer light emitting device according to claim 5, wherein a layer comprising an electron transporting compound is disposed between the cathode and the light emitting layer so that the layer comprising an electron transporting compound is adjacent to said light emitting layer.

9. (Previously Presented): The polymer light emitting device according to claim 5, wherein a layer comprising a hole transporting compound is disposed between the anode and the light emitting layer so that the layer comprising a hole transporting compound is adjacent to said light emitting layer.

10. (Previously Presented): The polymer light emitting device according to claim 5, wherein a layer comprising an electron transporting compound is disposed between the cathode and the light emitting layer so that the layer comprising an electron transporting compound is adjacent to said light emitting layer, and a layer comprising a hole transporting compound is disposed between the anode and the light emitting layer so that the layer comprising a hole transporting compound is adjacent to said light emitting layer.

11. (Previously Presented): A flat light source obtained by using the polymer light emitting device of claim 5.

12. (Previously Presented): A segment display obtained by using the polymer light emitting device of claim 5.

13. (Previously Presented): A dot matrix display obtained by using the polymer light emitting device of claim 5.

14. (Previously Presented): A liquid crystal display obtained by using the polymer light emitting device of claim 5 as a back-light.